

Inputs

Partner Inputs

- K-12 teachers
- School district administrators

Activities

Partner Activities

- Teachers implement Newsela STEM teaching and learning materials
- Schools have access to Newsela STEM

Outcomes: short term (class period)

Partner Outcomes

- Teachers incorporate more and more varied materials into their instruction and teaching practices
- Teachers feel more equipped to make real-world connections and to incorporate interdisciplinary learning in their instruction

Outcomes: intermediate (in-year)

Partner Outcomes

- Teachers feel more confident teaching varied STEM content using varied methods and tools
- School scores improve on state STEM assessments
- Students have improved cross-disciplinary thinking, literacy skills, and flexibility to address complex challenges

Outcomes: long term (+1 year)

Partner Outcomes

- Sustained and lasting year-over-year increase in students performing at or above grade level on state STEM assessments

Platform Inputs

- Standards-aligned instructional materials:
 - 1) Classroom-ready courses
 - Video-based lessons
 - Cost-effective hands-on activities
 - Student-facing assignable activities
 - Recommended extension opportunities
 - 2) STEM Learning resources
 - Interactive datasets
 - Project-based learning
 - Authentic reading material
 - Discussion questions and vocabulary
 - 3) Assessments
 - Quizzes and quiz games
- Classroom controls and monitoring:
 - Task assignment
 - Graphic organizers and checks for understanding
 - Assignment Builder for custom assignments
 - Create and manage classes; sync with LMS
- Admin Console for District and School leaders
 - Content restriction and promotion
 - Student, Class, and Faculty directories.
 - Usage Report and CSV download of Newsela writing data
 - Admin Resource Hub and Newsela Engagement Kits

Platform Activities

- Teachers are able to select instructional materials which are relevant to their curriculum.
- Teachers are able to efficiently assign classroom tasks, homework assignments, and assessments.
- Teachers are able to monitor student engagement with the learning materials.
- School leaders are able to configure content and review usage.

Platform Outcomes

- Teachers quickly and confidently incorporate STEM into lessons, locate additional activities and resources, build assessments
- School leaders can see usage of content aligned with curriculum and standards

Platform Outcomes

- Teachers experience increased efficiency in identifying and selecting relevant resources
- Teachers can more easily identify students who are struggling and provide support sooner
- Teachers are on pace with curriculum and standards
- Teachers deliver curriculum with fidelity
- Teachers have time and resources to differentiate instruction to suit all learners
- School leaders configure content to adapt to in-year needs
- School leaders take action based on dashboards and reporting

Platform Outcomes

- STEM lessons and assignments are varied, differentiated, and incorporate diverse methodologies
- Incorporation of STEM activities is wide-spread and effective
- Lessons are engaging, standards-aligned, and address the needs of all learners
- Curriculum is aligned to specific needs of school

Implementation Support & Scaffolding Inputs

- Levelled texts with comprehension support:
 - Read-aloud options and reading skill quiz
 - Spanish translations
 - Writing prompts
- Lesson guides and classroom strategies for scientific investigation
- Luna, an AI-powered teaching assistant, includes:
 - Lesson Planner
 - Text Leveler
 - Editable Graphic Organizers
 - Text Translator for 40+ languages
 - Guided Highlighting
 - Tier III Vocabulary definitions

Implementation Support Activities

- Teachers have access to support tools to implement inclusive, differentiated lessons and activities.

Implementation Outcomes

- Teachers quickly and confidently adapt lessons to accommodate the needs of diverse learners

Implementation Outcomes

- Teachers feel supported implementing new teaching strategies
- Teachers can easily meet the diverse needs of their students
- Students have improved comprehension of STEM learning materials
- All learners experience improved performance against state STEM benchmarks

Implementation Outcomes

- All learners performing at or above grade level on state STEM assessments

Content Inputs

- Real-world scenarios and problems:
 - Exploration of science phenomena in everyday life
 - Virtual science field trips
 - Exposure to STEM careers
 - Engagement with region-specific data
 - Activities connected to current events, holidays, and the news
 - Issues-based learning and problem-solving
- Cross-disciplinary STEM content:
 - Reading texts in science, technology, engineering, and math
 - Analyzing data and applying scientific explanations
 - Math videos to support science investigations
 - Engaging with societal issues with interdisciplinary dimensions
- Scientific communication:
 - Embedded reading activities and writing prompts
 - Obtaining, evaluating, and communicating information activities
- Science and engineering practices:
 - Data investigation and analysis
 - Claim, evidence, reasoning (CER) to promote scientific argumentation

Content Activities

- Teachers incorporate Newsela STEM content in their classroom instruction.

Content Outcomes

- Lessons feature explicit opportunities for students to make meaningful science connections beyond the classroom
- Lessons feature explicit opportunities for students to experience integrated STEM learning
- Lessons encourage students to develop science and engineering practices
- Students engage with more and more varied readings which contextualize STEM topics
- Students have opportunities to practice scientific communication

Content Outcomes

- Students have positive attitudes towards STEM learning and perception of STEM content as personally relevant
- Students disciplinary content knowledge (science, ELA, math)
- Students improve in disciplinary language in STEM and comprehension of STEM texts
- Students demonstrate higher-quality scientific argumentation
- Students improve understanding of data representations and analysis

Content Outcomes

- Students are motivated to pursue STEM in career and lifelong learning
- Students apply problem-solving and critical thinking skills in their everyday lives
- Students develop deeper conceptual understanding across disciplines which fosters holistic reasoning
- Students are confident in their ability to succeed in science and to communicate as scientists.
- Students understand how to evaluate information they encounter outside of the classroom, and communicate science ideas to others